

CISCO CATALYST 9300X SERIES

Cisco Catalyst Switch

C9300X-24Y-E

The Cisco Catalyst C9300X-24Y-E is a flagship enterprise-class fiber aggregation switch delivering 24 native 10G/25G SFP28 ports, up to 1 Tbps StackWise-1T stacking bandwidth, modular high-speed uplinks, dual redundant power supplies, and advanced Cisco IOS XE programmability with Cisco DNA Essentials licensing.

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25G

SFP28 Fiber Ports

1 Tbps

StackWise-1T Capacity

2.0 Tbps

Switching Capacity

100G

Modular Uplink Support

PRODUCT OVERVIEW

Enterprise Core & High-Speed Aggregation

Designed for next-generation enterprise networks and data center Top-of-Rack deployments, the C9300X-24Y-E provides high port density, flexible dual-rate 10G/25G optical connectivity, and hardware-anchored security to ensure maximum uptime and bandwidth performance.

25G**25G SFP28 Ports**

24 native dual-rate ports supporting both 10G SFP+ and 25G SFP28 transceivers for seamless fiber migration.

1T**StackWise-1T**

Industry-leading 1 Tbps stacking throughput allows up to 8 switches to operate as a single unified system.

MOD**Modular Uplinks**

Supports flexible uplink modules providing up to 40G and 100G high-speed connectivity to core networks.

XE**Cisco IOS XE**

Open, programmable operating system supporting automated workflows, telemetry, and zero-touch provisioning.

PWR**SEC**

Redundant Power

Supports dual hot-swappable AC/DC power supplies and field-replaceable fan trays for maximum resilience.

Advanced Security

Hardware Trust Anchor Module (TAM), MACsec-256 link encryption, and Encrypted Traffic Analytics (ETA).

01 / TECHNICAL SPECIFICATIONS

Cisco C9300X-24Y-E Detailed Specifications

The specifications below detail the hardware architecture, memory, stacking capacity, and physical dimensions of the Cisco Catalyst C9300X-24Y-E switch.

Manufacturer	Cisco Systems, Inc.
Product Family	Cisco Catalyst 9300X Series
Model	Cisco Catalyst C9300X-24Y-E
Part Number	C9300X-24Y-E
Product Type	Managed Fiber Aggregation Switch
Downlink Ports	24 x 10/25 Gigabit Ethernet SFP28 ports
Uplink Configuration	Modular uplink slots (supports 10G, 25G, 40G, and 100G modules)
Stacking Technology	Cisco StackWise-1T
Stacking Bandwidth	Up to 1 Tbps stacking bandwidth
Switching Capacity	Up to 2.0 Tbps (including stacking)

Forwarding Rate	Up to 1488 Mpps
System Memory (DRAM)	16 GB
Flash Memory	16 GB
Power Supplies	Dual redundant, hot-swappable AC/DC power supply slots
Software License	Cisco DNA Essentials (Upgradeable to DNA Advantage)
Operating System	Cisco IOS XE
Security Features	Secure Boot, Trust Anchor Module (TAM), MACsec-256, ETA
Form Factor	1RU Rack-mountable chassis
Product Dimensions (H x W x D)	4.4 × 44.5 × 48.8 cm (1.73 × 17.5 × 19.2 in)
Product Weight	Approx. 7.5 kg (16.5 lb)
Shipping Package Dimensions	Approx. 15 × 55 × 60 cm
Shipping Weight (With Box)	Approx. 8.5–10.0 kg (varies by power supply configuration)
Operating Temperature	-5 to 45°C (23 to 113°F)

Operating Humidity

10% to 95%, noncondensing

02 / DEPLOYMENT

Architecture, Software, and Network Integration

The C9300X-24Y-E integrates seamlessly into modern campus backbones, high-density distribution rooms, and edge data center environments. With Cisco DNA Essentials, administrators benefit from automated lifecycle management, device discovery, and network telemetry.

Core & Aggregation

Acts as an ideal fiber aggregation node collecting 10G/25G uplinks from access switches across campus buildings.

Top-of-Rack (ToR)

Provides dual 10G/25G high-speed connections for virtualized server racks and hyperconverged storage infrastructure.

StackWise-1T Architecture

Combine up to 8 switches into a single logical entity to streamline IP management and secure non-stop forwarding.

03 / PROCUREMENT

Commercial Stock & Ordering Notes

When purchasing the C9300X-24Y-E, confirm the required power supply capacity (AC or DC), optics transceivers, and uplink expansion modules needed for your topology. Contact NexoGet for official quotes, lead times, and global shipping options.

Important: Verify optic transceiver compatibility (SFP-10G vs SFP-25G), stacking cable lengths, and software licensing requirements before completing your order.

Dimensions, Weight and Shipping Information

Official chassis dimensions and estimated shipping carton specifications for logistics and freight calculation.

Chassis Dimensions (H x W x D)	4.4 x 44.5 x 48.8 cm
Chassis Weight	7.5 kg
Estimated Shipping Box Dimensions	Approx. 15 x 55 x 60 cm
Estimated Gross Package Weight	Approx. 8.5–10.0 kg (including box, accessories, and power modules)

Where Cisco C9300X-24Y-E Fits Best

Enterprise Core Backbones

Delivers line-rate 25G optical switching for enterprise headquarters requiring high availability and low latency.

High-Speed Fiber Distribution

Aggregates multiple floor switches into a unified 1 Tbps stacked backbone ring with uninterrupted failover.

Data Center Virtualization

Serves as a robust Top-of-Rack switch for high-density computing clusters and enterprise cloud deployments.

Before You Order Cisco C9300X-24Y-E

To ensure smooth installation, consult with NexoGet network specialists regarding power budget choices, StackWise cabling, compatible SFP28 optics, and license upgrades.

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Need a quote for Cisco C9300X-24Y-E?

Contact NexoGet for official pricing, availability, optics selection, and express worldwide delivery.

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